Stages of Issuance of P&IDs

P&ID (Piping and Instrumentation Diagram) issuance in a process plant typically follows a phased approach, progressing through stages like Issue for Comments, Issue for Approval, Issue for Design Review/HAZOP, Issue for Construction, and finally, As Built. This ensures thorough review, feedback incorporation, and eventual accurate documentation of the plant's design. Here's a more detailed breakdown:

1. Issue for Comments (IFCC) or Issue for Review (IFR):

This initial stage is for preliminary review and feedback from various stakeholders. The P&ID is shared for review, allowing process engineers, control engineers, and other relevant parties to provide comments and suggestions. This phase helps identify potential issues early on and ensures that the P&ID meets the requirements of all stakeholders.

2. Issue for Approval (IFA):

Once comments from the previous stage have been addressed, the P&ID is issued for formal approval. This stage involves a formal review and approval process, often involving a formal review board. The approved P&ID serves as the basis for further design work and implementation.

3. Issue for Design Review/HAZOP (IFD/IFH):

This stage is crucial for conducting a thorough design review and Hazard and Operability Study (HAZOP).
The P&ID is used to identify potential hazards and operational problems, and to ensure that the plant design is safe and reliable. HAZOP analysis helps to identify potential problems and develop mitigation strategies.

4. Issue for Construction (IFC):

This stage marks the final version of the P&ID to be used during construction. The P&ID is used by construction teams to build the plant according to the approved design. It is a critical document for ensuring that the plant is built accurately and according to the design specifications.

5. As-Built:

After construction is completed, the P&ID is updated to reflect the actual “as-built” condition of the plant.
This “as-built” P&ID serves as a record of the actual plant configuration and is used for maintenance, modifications, and future expansions. It is essential for ensuring that the plant is operated safely and efficiently.

Key Considerations:

a. Revision Tracking:

Each stage of the P&ID issuance is typically associated with a revision number or letter. This allows for tracking changes and ensures that everyone is working with the most current version.

b. Communication:

Clear communication between stakeholders is crucial throughout the P&ID issuance process.

c. Documentation:

All changes and revisions should be documented thoroughly, including the reason for the change and the date of the revision.

By following a structured approach to P&ID issuance, process plants can ensure that they have accurate and up-to-date documentation that is critical for safe and efficient operation.